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(54) **ANTIREFLECTION GLASS SHEET, ITS
PRODUCTION AND COATING COMPOSITION
FOR ANTIREFLECTION FILM**

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain small reflectance for visible light of a large incident angle and to improve visibility by coating the surface of a glass substrate with a film which has specified thickness and consists of chain silica fine particles and silica, and forming a rough surface of the film.

SOLUTION: At least one surface of a glass substrate is coated with a film of 110 to 250 nm thickness comprising chain silica fine particles and silica by 5 to 30 wt.%

of the chain silica, and the surface of the film is roughened. The obtd. film has voids in chain silica particles adjacent to each other in the film, and the film has 1.25 to 1.40 refractive index. The film surface has 5 to 50 nm numerical average roughness (Ra) with 10 to 300 nm average period (Sm) of roughness. A preferable film compsn. is obtd. by compounding 100 pts.wt. of a silicon compd., 100 to 800 pts.wt. of chain silica fine particles, 4 to 150 pts.wt. of water, 0.00001 to 5 pts.wt. of an acid catalyst, 0.001 to 10 pts.wt. of a dispersion assistant and 500 to 10000 pts.wt. of a solvent to prepare the coating liquid.

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